

AMENDMENTS TO THE CLAIMS

1. (Canceled)
2. (Currently amended) A monitoring method comprising the steps of:
 - determining a relationship between a first biological property ~~of a tissue site~~, a second biological property ~~associated with said tissue site~~ and a compensated measurement ~~of said tissue site~~;
 - reading a primary input in communication with a first device responsive to said first biological property and a parameter input responsive in communication with a second device responsive to said second biological property; and
 - processing said primary input and said parameter input according to said relationship so as to output said compensated measurement.
3. (Currently amended) A monitor comprising:
 - a[[~~h~~]] first input means in communication with a first device for determining [[a]]first biological property values~~associated with a tissue site~~;
 - a second input means in communication with a second device for determining [[a]]second biological property values~~associated with a tissue site~~;
 - a compensation means for determining a relationship between compensated measurement values, said first biological property values and said second biological property values; and
 - a processor means for deriving a compensated measurement of said first biological property from said first input means, said second input means and said compensation means.
4. (New) A monitor for compensating a first physiological property using a second physiological property, the monitor comprising:
 - a primary input in communication with a first device and responsive to a first physiological property;
 - a parameter input in communication with a second device and responsive to a second physiological property;
 - a compensation relationship of said primary input, said parameter input and a compensated measurement; and

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a processor configured to output said compensated measurement from said primary input and said parameter input utilizing said compensation relationship.

5. (New) The monitor of Claim 4, wherein said first property is dependent upon said second property.

6. (New) The monitor of Claim 4, wherein said first internal property comprises blood oxygen levels.

7. (New) The monitor of Claim 4, wherein said second internal property comprises pH.

8. (New) The monitor of Claim 4, wherein said second internal property comprises Hct.

9. (New) The monitor of Claim 4, wherein said second internal property comprises HbCO.

10. (New) The monitor of Claim 4, wherein said second internal property comprises MetHb.

11. (New) The monitor of Claim 4, wherein said compensation relationship comprises a calibration curve.

12. (New) The monitor of Claim 4, further comprising an information element.